JUN 2 1 2001

1645

## TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/747,521

DATE: 05/10/2001 TIME: 13:02:09

Input Set : A:\227274079.ST25.txt

Output Set: N:\CRF3\05102001\1747521.raw

## **ENTERED**

	<11						ay,	Darr	el								•			
4	-120		atec:				NI · M	at ho	de f	or D	roto	at i o	n Na	aine.	- T.o.	thal	Infection	with	Pacilluc	Anthracis
	<130									OI F.	roce	CLIO	n Ay	arns	. ne	LIIGI	Intection	WICH	bacillus	Antinacis
	<140									9/74	7,52	1								
	<14									-	•									
	<160																			
15	<170	0> S	OFTW	ARE:	Pate	entI	n ve	rsio	n 3.	0										
17	<210	0> S	EQ I	ON C	: 1															
	<21				430															
	<212				_															
	<213				вас	ıııu	s an	cnra	ClS											
	<220 <220				CDS										•					
	<222		-			(2)	4301													
	<400					( -	,													
	atg		_			gaa	ttt	ata	aaa	gta	att	agt	atg	tca	tgt	tta	48			
28	Met	Asn	Ile	Lys	Lys	Glu	Phe	Ile	Lys	Val	Ile	Ser	Met	Ser	Cys	Leu				
29	1				5					10					15		•			
31	gta	aca	gca	att	act	ttg	agt	ggt	ccc	gtc	ttt	atc	ccc	ctt	gta	cag	96			
	Val	Thr	Ala		Thr	Leu	Ser	Gly		Val	Phe	Ile	Pro		Val	Gln				
33				20					25					30			7.4			
	ggg						_	_		_		-					144			
37	Gly	нта	35	GLY	штэ	GIY	АЗР	40	GLY	Mec	nrs	Val	цуз 45	GIU	пуз	GIU				
	aaa	aat	-	gat	gag	aat	aaσ		aaa	gat	σaa	σaa		aat.	aaa	aca	192		•	
	Lys			_			-	-		_	-	-	_							
41	-	50	-	-			55	-	-	-		60	-		-					
43	cag	gaa	gag	cat	tta	aag	gaa	atc	atg	aaa	cac	att	gta	aaa	ata	gaa	240			
	Gln	Glu	Glu	His	Leu	_	Glu	Ile	Met	Lys		Ile	Val	Lys	Ile					
	65					70					75					80				
	gta				-	_	_				-	_	-	_			288			
49	Val	ràs	СТА	GIU	85	Ата	vaı	ьys	ьys	90	Ата	Ата	GIU	ьys	ьеи 95	Leu				
_	gag	aaa	αta	cca		αat	att	tta	αaα		tat	aaa	aca	att		ααa	336			
	Glu		_			-	-			_			_				330	•		
53		4 -		100		•			105		-4-			110		4				
55	aag	ata	tat	att	gtg	gat	ggt	gat	att	aca	aaa	cat	ata	tct	tta	gaa	384			
56	Lys	Ile	Tyr	Ile	Val	Asp	Gly	Asp	Ile	Thr	Lys	His	Ile	Ser	Leu	Glu	•			
57			115					120					125							
	gca																432			
	Ala		ser	GLU	Asp	ràs		гĀг	тте	ьуs	Asp		Tyr	GTA	гÀг	Asp				
61	ac+	130	++>	ca+	ara a	ca+	135	at a	+ > +	aa.	222	140		+ = +-	u > -	000	480			
	gct Ala				-			_		_		-			_		400			
	145	_cu	LCu		JIU	150	-1-		-1-		155	JIU	J-1	-1-	JIU	160				
	gta	ctt	gta	atc	caa		tca	gaa	gat'	tat		gaa	aat	act	qaa		528			
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RAW SEQUENCE LISTING DATE: 05/10/2001 PATENT APPLICATION: US/09/747,521 TIME: 13:02:09

Input Set : A:\227274079.ST25.txt
Output Set: N:\CRF3\05102001\1747521.raw

68 69	Val	Leu	Val	Ile	Gln 165	Ser	Ser	Glu	Asp	Tyr 170	Val	Glu	Asn	Thr	Glu 175	Lys	
	aca	cta	220	att	tat	tat	паа	ata	aat	aan	ata	tta	tra	nns	gat	att	576
					Tyr												,370
	АТа	Leu	ASII		TÅT	ıyı	GIU	116		гуѕ	TIE	Leu	ser		ASP	TIE	
73				180					185					190			
75	tta	agt	aaa	att	aat	caa	cca	tat	cag	aaa	ttt	tta	gat	gta	tta	aat	624
76	Leu	Ser	Lys	Ile	Asn	Gln	Pro	Tyr	Gln	Lys	Phe	Leu	Asp	Val	Leu	Asn	
77			195					200		_			205				
	300			2 2 t	gca	tot	αa+		aat	aaa	caa	aat		tta	+++	act	672
					-		-		_			-					0/2
			гàг	Asn	Ala	ser	_	ser	ASP	GIY	GIn	-	Leu	ьец	Pne	Thr	
81	•	210					215					220					
83	aat	cag	ctt	aag	gaa	cat	ccc	aca	gac	ttt	tct	gta	gaa	ttc	ttg	gaa	720
84	Asn	Gln	Leu	Lys	Glu	His	Pro	Thr	Asp	Phe	Ser	Val	Glu	Phe	Leu	Glu	
85	225			-		230			_		235					240	
		aat	age	aat	gag		caa	αaa	ata	+++		aaa:	act	+++	αca	tat	768
			_		-	-		-	_				_		-		, 00
	GIII	ASII	ser	ASII	Glu	vaı	GIII	GIU	vaı		АІа	гуз	Ald	Pne		LAL	
89					245					250					255		
91	tat	atc	gag	cca	cag	cat	cgt	gat	gtt	tta	cag	ctt	tat	gca	ccg	gaa	816
92	Tyr	Ile	Glu	Pro	Gln	His	Arg	Asp	Val	Leu	Gln	Leu	Tyr	Ala	Pro	Glu	
93	_			260			_	_	265				_	270			
	act	+++	aat		atg	αat	aaa	+++	aac	паа	caa	αaa	ata	aat	cta	tcc	864
	-				_	-				-		-					004
	нта			-	Met	ASP	гуэ		ASII	GIU	GIII	GIU		ASII	Leu	ser	
97			275					280					285				
99	ttg	gaa	gaa	ctt	aaa	gat	caa	cgg	atg	ctg	tca	aga	tat	gaa	aaa	tgg	912
100	Leu	Glu	Glu	Leu	Lys	Asp	Gln	Arg	Met	Leu	Ser	Arg	Tyr	Glu	Lys	Trp	
101		290					295					300	)				
103	σаа	ааσ	ata	aaa	cag	cac	tat	caa	cac	taa	ago	gat	tet	tta	tet	gaa	960
		_			Gln						_	_				-	200
		БУЗ	110	L LIYS	GIII		TYL	GII	1113	111	315	_	, DCI	пец	Der	320	
	305					310											
	-		_		ctt			_	_	_						_	1008
108	Glu	Gly	Arg	Gly	Leu	Leu	Lys	Lys	Leu	Gln	Ile	Pro	lle	Glu	Pro	Lys	
109					325					330					335		
111	aaa	qat	σac	ata	att	cat	tct	tta	tct	caa	σaa	gaa	aaa	gag	ctt	cta	1056
		_	_		Ile						_	-					
113			110 P	340					345				, -	350			
			_ 4														1104
		-			att	-	_	-	-						_		1104
116	Lys	Arg	Ile	Gln	Ile	Asp	Ser	Ser	Asp	Phe	Leu	Ser	Thr	Glu	GLu	Lys	
117			355	i				360					365				
119	gag	ttt	tta	aaa	aag	cta	caa	att	gat	att	cgt	gat	tct	tta	tct	gaa	1152
120	Glu	Phe	Leu	Lvs	Lvs	Leu	Gln	Tle	Asp	Tle	Ara	Asp	Ser	Leu	Ser	Ğlu.	
121		370		-1-	-1 -		375				,	380					
									-+-						+	+	1200
	_	-			ctt			-		_		_	_	_			1200
		Glu	Lys	Glu	Leu		Asn	Arg	He	GIn		_	Ser	Ser	Asn		
125	385					390					395					400	
127	tta	tct	gaa	aaa	gaa	aaa	gag	ttt	tta	aaa	aag	ctg	aaa	ctt	gat	att	1248
128	Leu	Ser	Glu	Lys	Ğlu	Lvs	Glu	Phe	Leu	Lys	Lys	Leu	Lys	Leu	Asp	Ile	
_					405					410	_				415		
129																	
129		ooe.	+=+	αa+		22+	023	200	++~			202	aa s	aaa		att	1206
131	caa			-	att				_	caa	gat				tta		1296
131	caa			-					_	caa	gat				tta		1296

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				400					405					400			
133				420					425					430			
	gat	_	-					-	-	_	_	_				_	1344
	Asp	Ser		Ser	He	Asn	Leu	_	Val	Arg	Lys	GIn	-	Lys	Arg	Asp	
137			435					440					445				
	att				_	-								_		-	1392
140	Ile	Gln	Asn	Ile	Asp	Ala		Leu	His	Gln	Ser	Ile	Gly	Ser	Thr	Leu	
141		450					455					460					
143	tac	aat	aaa	att	tat	ttg	tat	gaa	aat	atg	aat	atc	aat	aac	ctt	aca	1440
144	Tyr	Asn	Lys	Ile	Tyr	Leu	Tyr	Glu	Asn	Met	Asn	Ile	Asn	Asn	Leu	Thr	
145	465					470					475					480	
147	gca	acc	cta	ggt	gcg	gat	tta	gtt	gat	tcc	act	gat	aat	act	aaa	att	1488
148	Ala	Thr	Leu	Gly	Ala	Asp	Leu	Val	Asp	Ser	Thr	Asp	Asn	Thr	Lys	Ile	
149					485					490					495		
151	aat	aga	ggt	att	ttc	aat	gaa	ttc	aaa	aaa	aat	ttc	aaa	tat	agt	att	1536
152	Asn	Arg	Gly	Ile	Phe	Asn	Glu	Phe	Lys	Lys	Asn	Phe	Lys	Tyr	Ser	Ile	
153				500					505					510			
155	tct	agt	aac	tat	atg	att	gtt	gat	ata	aat	gaa	agg	cct	gca	tta	gat	1584
156	Ser	Ser	Asn	Tyr	Met	Ile	Val	Asp	Ile	Asn	Glu	Arg	Pro	Ala	Leu	Asp	
157			515					520					525				
159	aat	gag	cgt	ttg	aaa	tgg	aga	atc	caa	tta	tca	cca	gat	act	cga	gca	1632
	Asn	-	_	_			_						_		_	_	
161		530	_		_	_	535					540	_		-		
163	gga	tat	tta	qaa	aat	qqa	aaq	ctt	ata	tta	caa	aga	aac	atc	qqt	ctq	1680
	Gly			_			_					_				-	
	545	-				550	•				555	,			•	560	
	gaa	ata	aaq	gat	qta	caa	ata	att	aaq	caa	tcc	gaa	aaa	gaa	tat		1728
	Ğlu		-	-	-				_			-		-			
169					565					570					575		
171	agg	att	gat	qcq	aaa	qta	ata	cca	aaq	agt	aaa	ata	qat	aca	aaa	att	1776
	Arg		_			-			-	_			-				
173	-		~	580	•				585		-		-	590	-		
175	caa	qaa	qca	caq	tta	aat	ata	aat	caq	gaa	taa	aat	aaa	qca	tta	aaa	1824
	Gln	-	-	-					_	-				_			
177			595					600					605			2	
179	tta	cca	aaa	tat	aca	aaσ	ctt	att	aca	ttc	aac	ata	cat	aat	aσa	tat	1872
	Leu					_									-		
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	Ala				_	-	_	-				-		-			
185						630			-1-		635					640	
187	aat	aat	att	caa	aαt.	gat.	ct.t.	ata	aaa	aaα	αta	aca	aat.	tac	t.t.a	att	1968
	Asn				_	-				_	_					-	-,,,
189				*	645				-1-	650				-1-	655		
191	gat	aat	aat	σσα		ttt	at.t.	ttt	acc		att	act	ctc	cct		ata	2016
	Asp				-		-			-							
193				660	5				665					670			
	gct	σаа	caa		aca	cat	саа	gat		ata	tat	σασ	caa		cat	tca	2064
	Ala																2001
197			675	-1-				680			-1-		685				
			3,3					500					303				

DATE: 05/10/2001

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Input Set : A:\227274079.ST25.txt

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	Lys		tta Leu		_		-		-								2112
203 204	tca		ggt Gly	-	-				-	-						-	2160
207 208	ttt Phe		cat His	-	Val	gat	-		-	Gly	tat			-	Lys	aac	2208
212	caa		gat Asp	Leu	-				Lys				-	Ile		_	2256
216	_	-	ggg Gly	-				Ser			-		Asn	-		-	2304
220	Phe	Phe	755 gca Ala	-	-		Arg		_			Thr	_		_	_	2352
224	cgt Arg		aaa Lys	-		Lys		-	-		Thr					Asn	2400
227 228	-	_	att Ile	_	Phe					taa	795					800	2430
229	<210	) > CI	דר סים	NO.	805												
			ENGT														
233 234	<213 <213	1> L1 2> T	ENGTI YPE:	1: 80 PRT	)9		: ant	hrac	rie								
233 234 235	<21: <21: <21:	1> L1 2> T: 3> O1	ENGT	1: 80 PRT [SM:	)9 Baci	illus	s ant	hrac	cis								
233 234 235 237	<21: <21: <21: <400 Met	1> L1 2> T3 3> 01 0> S1	ENGTI YPE : RGANI	H: 80 PRT ISM: NCE:	9 Baci 2					Val	Ile	Ser	Met	Ser	Cys 15	Leu	
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233 234 235 237 239 240 243 244 247 248	<21: <21: <400 Met 1 Val	1> L1 2> T3 3> O1 0> S1 Asn Thr	ENGTH YPE: RGANI EQUEN Ile Ala Gly 35	H: 80 PRT ISM: ISE: Lys Ile 20 Gly	Baci 2 Lys 5 Thr	Glu Leu Gly	Phe Ser Asp	Ile Gly Val 40	Lys Pro 25 Gly	10 Val Met	Phe His	Ile Val	Pro Lys 45	Leu 30 Glu	15 Val Lys	Gln Glu	
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233 234 235 237 239 240 243 244 247 248 251 252 255 256 259 260	<21: <21: <400 Met 1 Val Gly Lys Gln 65 Val	1> L1 2> TY 3> O1 0> S1 Asn Thr Ala Asn 50 Glu	ENGTH YPE: RGANI EQUEN Ile Ala Gly 35 Lys Glu Gly	H: 80 PRT ISM: ISM: Lys Ile 20 Gly Asp His	Baci 2 Lys 5 Thr His Glu Leu Glu 85	Glu Leu Gly Asn Lys 70 Ala	Phe Ser Asp Lys 55 Glu Val	Ile Gly Val 40 Arg Ile Lys	Lys Pro 25 Gly Lys Met Lys	10 Val Met Asp Lys Glu 90	Phe His Glu His 75 Ala	Ile Val Glu 60 Ile Ala	Pro Lys 45 Arg Val Glu	Leu 30 Glu Asn Lys	15 Val Lys Lys Ile Leu 95	Gln Glu Thr Glu 80 Leu	
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233 234 235 237 239 240 243 244 247 248 251 252 255 256 259 260 263 264 267 268	<211 <211 <400 Met 1 Val Gly Lys Gln 65 Val Glu Lys	1> Li 2> T: 3> Oi 0> Si Asn Thr Ala Asn 50 Glu Lys Lys Ile	ENGTH YPE: RGANN EQUEN Ile Ala Gly 35 Lys Glu Gly Val	H: 80 PRT ISM: ISM: Lys Ile 20 Gly Asp His Glu Pro 100 Ile	Baci 2 Lys 5 Thr His Glu Leu Glu 85 Ser	Glu Leu Gly Asn Lys 70 Ala Asp	Phe Ser Asp Lys 55 Glu Val Val	Ile Gly Val 40 Arg Ile Lys Leu Asp 120	Lys Pro 25 Gly Lys Met Lys Glu 105 Ile	10 Val Met Asp Lys Glu 90 Met Thr	Phe His Glu His 75 Ala Tyr Lys	Ile Val Glu 60 Ile Ala Lys	Pro Lys 45 Arg Val Glu Ala Ile 125	Leu 30 Glu Asn Lys Lys Ile 110 Ser	15 Val Lys Lys Ile Leu 95 Gly Leu	Glu Thr Glu 80 Leu Gly Glu	
233 234 235 237 239 240 243 244 247 248 251 252 255 256 259 260 263 264 267 268 271 272	<211 <211 <400 Met 1 Val Gly Lys Gln 65 Val Glu Lys Ala	1> L1 2> T: 3> OI 0> SI Asn Thr Ala Asn 50 Glu Lys Lys Ile Leu 130	ENGTH YPE: RGANN EQUEN Ile Ala Gly 35 Lys Glu Gly Val	H: 80 PRT ISM: ISM: Lys Ile 20 Gly Asp His Glu Pro 100 Ile Glu	Baci 2 Lys 5 Thr His Glu Leu Glu 85 Ser Val	Glu Leu Gly Asn Lys 70 Ala Asp Asp Lys	Phe Ser Asp Lys 55 Glu Val Val Gly Lys 135	Ile Gly Val 40 Arg Ile Lys Leu Asp 120 Lys	Lys Pro 25 Gly Lys Met Lys Glu 105 Ile	10 Val Met Asp Lys Glu 90 Met Thr	Phe His Glu His 75 Ala Tyr Lys Asp	Ile Val Glu 60 Ile Ala Lys His Ile 140	Pro Lys 45 Arg Val Glu Ala Ile 125 Tyr	Leu 30 Glu Asn Lys Lys Ile 110 Ser	15 Val Lys Lys Ile Leu 95 Gly Leu	Glu Thr Glu 80 Leu Gly Glu Asp	

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279 280	Val	Leu	Val	Ile	Gln 165	Ser	Ser	Glu	Asp	Tyr 170	Val	Glu	Asn	Thr	Glu 175	Lys
	Ala	Leu	Asn	Val 180	Tyr	Tyr	Glu	Ile	Gly 185	Lys	Ile	Leu	Ser	Arg 190	Asp	Ile
	Leu	Ser	Lys 195		Asn	Gln	Pro	Tyr 200		Lys	Phe	Leu	Asp 205		Leu	Asn
	Thr	Ile 210		Asn	Ala	Ser	Asp 215		Asp	Gly	Gln	Asp 220		Leu	Phe	Thr
		_	Leu		Glu	His 230		Thr	Asp	Phe	Ser 235		Glu	Phe	Leu	Glu 240
		Asn	Ser	Asn	Glu 245		Gln	Glu	Val	Phe 250		Lys	Ala	Phe	Ala 255	
303	Tyr	Ile	Glu	Pro 260	Gln	His	Arg	Asp	Val 265		Gln	Leu	Tyr			Glu
	Ala	Phe			Met	Asp	Lys			Glu	Gln	Glu	•	270 Asn	Leu	Ser
	Leu		275 Glu	Leu	Lys	Asp		280 Arg	Met	Leu	Ser		285 Tyr	Glu	Lys	Trp
312 315	Glu	290 Lys	Ile	Lys	Gln	His	295 Tyr	Gln	His	Trp	Ser	300 Asp	Ser	Leu	Ser	Glu
316						310					315					320
319 320	Glu	Gly	Arg	Gly	Leu 325	Leu	Lys	Lys	Leu	Gln 330	Ile	Pro	Ile	Glu	Pro 335	Lys
323 324	Lys	Asp	Asp	Ile 340	Ile	His	Ser	Leu	Ser 345	Gln	Glu	Glu	Lys	Glu 350	Leu	Leu
327 328	Lys	Arg	Ile 355	Gln	Ile	Asp	Ser	Ser 360	Asp	Phe	Leu	Ser	Thr 365	Glu	Glu	Lys
331 332	Glu	Phe 370	Leu	Lys	Lys	Leu	Gln 375	Ile	Asp	Ile	Arg	Asp 380	Ser	Leu	Ser	Glu
335 336		Glu	Lys	Glu	Leu	Leu 390	Asn	Arg	Ile	Gln	Val 395	Asp	Ser	Ser	Asn	Pro 400
		Ser	Glu	T.ve	Glu		Glu	Phe	T.em	T.vc		T.e.11	Lvc	T.eu	Δsn	
340					405					410					415	
344			-	420	Ile			-	425		-	•	-	430		
347 348	Asp	Ser	Pro 435	Ser	Ile	Asn	Leu	Asp 440	Val	Arg	Lys	Gln	Tyr 445	Lys	Arg	Asp
351 352	Ile	Gln 450	Asn	Ile	Asp	Ala	Leu 455	Leu	His	Gln	Ser	Ile 460	Gly	Ser	Thr	Leu
355 356	_	Asn	Lys	Ile	Tyr	Leu 470	Tyr	Glu	Asn	Met	Asn 475	Ile	Asn	Asn	Leu	Thr 480
359 360	Ala	Thr	Leu	Gly	Ala 485	Asp	Leu	Val	Asp	Ser 490	Thr	Asp	Asn	Thr	Lys 495	Ile
	Asn	Arg	Gly	Ile 500	Phe	Asn	Glu	Phe	Lys 505		Asn	Phe	Lys	Tyr 510		Ile
	Ser	Ser	Asn		Met	Ile	Val	Asp		Asn	Glu	Ara	Pro		Leu	asp
368			515	- 2 -				520				3	525			
371 372	Asn	Glu 530	Arg	Leu	Lys	Trp	Arg 535	Ile	Gln	Leu	Ser	Pro 540	Asp	Thr	Arg	Ala
	Gly		Leu	Glu	Asn	Gly		Leu	Ile	Leu	Gln		Asn	Ile	Gly	Leu

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/747,521

DATE: 05/10/2001 TIME: 13:02:11

Input Set : A:\227274079.ST25.txt

Output Set: N:\CRF3\05102001\1747521.raw